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 FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
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 GOLDBERG, J.H. Florida Power & Light Co.
 RECIPIENT NAME RECIPIENT AFFILIATION
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SUBJECT: Responds to NRC Bulletin 89-002, "Stress Corrosion Cracking of High Hardness Type 410...."

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 TITLE: Bulletin Response 89-02 re Cracking of High-Hardness Type 410 Bolting

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FPL

P.O. Box 14000, Juno Beach, FL 33408-0420

JUNE 08 1990

L-90-195

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

Gentlemen:

Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
NRC Bulletin No. 89-02
Stress Corrosion Cracking of
High Hardness Type 410 Stainless
Steel Internal Preloaded Bolting
in Anchor Darling Model S350W
Swing Check Valves or Valves of
Similar Design

NRC Bulletin 89-02, issued by the NRC on July 19, 1989, requested that licensees identify, disassemble and inspect certain types of swing check valves which may contain Type 410 Stainless Steel (SS) bolting material. If the Type 410 SS bolting material is of sufficiently high hardness that it is susceptible to stress corrosion cracking, or has failed, licensees were requested to take appropriate actions.

Florida Power and Light Company (FPL) identified the following valves within the scope of NRC Bulletin 89-02: eleven Anchor Darling check valves (per unit) located in the Safety Injection System (SIS), four Velan check valves (per unit) located in the Chemical and Volume Control System, and four Velan check valves (common to both units) located in the SIS.

The current status of these valves is as follows:

- o Bolt replacement has been performed in all Unit 4 Anchor Darling check valves.
- o Bolt replacement has been performed for four of the eleven Unit 3 Anchor Darling check valves.
- o Bolt replacement has been performed for all Velan swing check valves.

Please see attachment for additional details.

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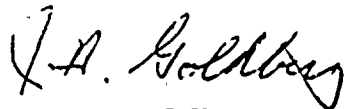
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FPL is deferring action on the remaining seven Unit 3 valves to the Cycle 13 (four valves) and Cycle 14 (three valves) refueling outages, currently scheduled to begin August 1992 and April 1994 respectively, to coincide with inspections already planned and for ALARA concerns. Inspections in all eleven Unit 4 valves and four Unit 3 valves found no cracked, broken, or otherwise degraded bolt material. Magnetic particle testing, Rockwell hardness testing and visual inspections were performed on all 410 SS studs removed from the 15 Anchor Darling check valves. The results of these tests and inspections showed no visual indications of stress corrosion cracking, and showed Rockwell hardness values well below the NRC acceptance criteria. No test data is available for the Velan valves. Westinghouse performed an evaluation of Anchor Darling check valve stud cracking due to stress corrosion. The Westinghouse evaluation of the valve internal structure indicates that even with both bolts broken, the valve would function as designed. Review of the small break LOCA analysis indicates significant margin to the applicable limits, even with the loss of an ECCS flow path.

Based on the above, FPL believes Turkey Point Unit 3 will operate reliably through the next two fuel cycles, by which time FPL will have replaced all of the bolts with new material.

If you should have any questions, please contact us.

Yours truly,



J. H. Goldberg
Executive Vice President

attachment

cc: Stewart D. Ebnetter, Regional Administrator, USNRC, Region II
Senior Resident Inspector, USNRC, Turkey Point Plant

STATE OF FLORIDA)
) ss.
COUNTY OF PALM BEACH)

J. H. Goldberg being first duly sworn, deposes and says:

That he is Executive Vice President, of Florida Power and Light Company, the Licensee herein;

That he has executed the foregoing document; that the statements made in this document are true and correct to the best of his knowledge, information and belief, and that he is authorized to execute the document on behalf of said Licensee.

J. H. Goldberg

J. H. Goldberg

Subscribed and sworn to before me this

8 day of June, 1990.

Roberta J. Economy

NOTARY PUBLIC, in and for the County of
Palm Beach, State of Florida

My Commission expires _____
Notary Public, State of Florida
My Commission Expires June 1, 1993
Bonded Thru Troy Fain - Insurance Inc.

Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
NRC Bulletin No. 89-02

ATTACHMENT

STATUS OF CHECK VALVES WITHIN SCOPE OF NRC BULLETIN 89-02

<u>Component</u> <u>Tag Number</u>	<u>Sys</u>	<u>Swing Check Valve</u> <u>Size and Make</u>	<u>Bolt</u> <u>Replacement</u>
3-875A	SI	Anchor Darling 10"	Complete
3-875B	SI	Anchor Darling 10"	Incomplete
3-875C	SI	Anchor Darling 10"	Incomplete
3-875D	SI	Anchor Darling 10"	Complete
3-875E	SI	Anchor Darling 10"	Incomplete
3-875F	SI	Anchor Darling 10"	Incomplete
3-876A	SI	Anchor Darling 8"	Incomplete
3-876B	SI	Anchor Darling 8"	Complete
3-876C	SI	Anchor Darling 8"	Incomplete
3-876D	SI	Anchor Darling 8"	Complete
3-876E	SI	Anchor Darling 8"	Incomplete
4-875A	SI	Anchor Darling 10"	Complete
4-875B	SI	Anchor Darling 10"	Complete
4-875C	SI	Anchor Darling 10"	Complete
4-875D	SI	Anchor Darling 10"	Complete
4-875E	SI	Anchor Darling 10"	Complete
4-875F	SI	Anchor Darling 10"	Complete
4-876A	SI	Anchor Darling 8"	Complete
4-876B	SI	Anchor Darling 8"	Complete
4-876C	SI	Anchor Darling 8"	Complete
4-876D	SI	Anchor Darling 8"	Complete
4-876E	SI	Anchor Darling 8"	Complete
3-312A	CVCS	Velan 3"	Complete
3-312B	CVCS	Velan 3"	Complete
3-312C	CVCS	Velan 3"	Complete
4-312A	CVCS	Velan 3"	Complete
4-312B	CVCS	Velan 3"	Complete
4-312C	CVCS	Velan 3"	Complete
3-266	CVCS	Velan 4"	Complete
4-266	CVCS	Velan 4"	Complete
879A	SI	Velan 3"	Complete
879B	SI	Velan 3"	Complete
879C	SI	Velan 3"	Complete
879D	SI	Velan 3"	Complete